

CLAIMS

1. A soft magnetic material comprising:

a metal magnetic powder, said metal magnetic powder being formed
5 from crystals having an average size, as determined by X-ray diffraction, of at least 30 nm.

2. A soft magnetic material as described in claim 1 wherein, in said metal magnetic particle, an average size of a crystal grain is at least 10 microns.

3. A soft magnetic material as described in claim 1 or claim 2 further
10 comprising a plurality of compound magnetic particles including said metal magnetic particles and an insulative film surrounding a surface of said metal magnetic particles.

4. A soft magnetic material as described in claim 3 further comprising an organic matter bonding said plurality of compound magnetic particles to each
15 other.

5. A powder magnetic core made using a soft magnetic material as described in any one of claim 1 through claim 4.